APPENDIX F
HIGHWAY BRIDGE STRUCTURE INVENTORY AND APPRAISAL (SI&A) SHEET

SPECIAL CODING INSTRUCTIONS

The Federal Highway Administration (FHWA) publication "Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges" shall be used for completion of the SI&A data form shown in this appendix except for those items with numbers greater than 199. Numbers greater than 199 denote items unique to the Corps' inventory. These items are described in reference 3*n*.

HIGHWAY BRIDGE STRUCTURE INVENTORY AND APPRAISAL

************************IDENTIFICATION***********************

(1) STATE NAME - _____ CODE _____
(200) COE DIVISION _____
(201) COE DISTRICT _____
(202) COE/DA BRIDGE NUMBER _____
(8) STATE STRUCTURE NUMBER # _____
(5) STATE INVENTORY ROUTE (ON/UNDER)
- (a), (b)…., (e) _____
(2) STATE HIGHWAY DEPARTMENT DISTRICT - CODE _____
(3) COUNTY CODE _____ (4) PLACE CODE _____
(6) FEATURES INTERSECTED - _____
(7) FACILITY CARRIED - _____
(9) LOCATION - _____
(11) MILEPOINT _____ . _____
(16) LATITUDE __ . __. __ (17) LONGITUDE __ . __ , . _____
(98) BORDER BRIDGE STATE CODE _____ % SHARE _____ %
(99) BORDER BRIDGE STRUCTURE NO. # _____

************STRUCTURES TYPE AND MATERIAL**************

(43) STRUCTURE TYPE MAIN: MATERIAL - _____
TYPE - _____CODE _____
(44) STRUCTURE TYPE APPR: MATERIAL - _____
TYPE - _____CODE _____
(45) NUMBER OF SPANS IN MAIN UNIT _____
(46) NUMBER OF APPROACH SPANS _____
(107) DECK STRUCTURE TYPE - _____CODE _____
(108) WEARING SURFACE/PROTECTIVE SYSTEM:
A) TYPE OF WEARING SURFACE - _____CODE _____
B) TYPE OF MEMBRANE - _____CODE _____
C) TYPE OF DECK PROTECTION - _____ CODE _____

***********************AGE AND SERVICE*******************

(27) YEAR BUILT _____
(106) YEAR CONSTRUCTED _____
(42) TYPE OF SERVICE ON _____
UNDER _____ CODE _____
(28) LANES: ON STRUCTURE _____ UNDER STRUCTURE _____
(29) AVERAGE DAILY TRAFFIC _____
(30) YEAR OF ADT 19____ (109) TRUCK ADT _____
(19) BYPASS, DETOUR LENGTH _____ MI

***********************GEOMETRIC DATA**********************

(48) LENGTH OF MAXIMUM SPAN _____FT
(49) STRUCTURE LENGTH _____ FT
(50) CURB/SIDEWALK: LEFT ___ . ___ FT/RIGHT ___ . _____ FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB ___ . _____ FT
(52) DECK WIDTH OUT TO OUT ___ . _____ FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) ___ . _____ FT
(33) BRIDGE MEDIAN - _____ CODE _____
(34) SKEW _____ DEG (35) STRUCTURE FLARED _____
(10) INVENTORY ROUTE MIN VERT CLEAR _____ FT _____ IN
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR _____ . _____ FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY _____ FT _____ IN
(54) MIN VERT UNDERCLEAR REF - _____ _____ FT _____ IN
(55) MIN LAT UNDERCLEAR RT REF - _____ _____ . _____ FT
(56) MIN LAT UNDERCLEAR LT _____ . _____ FT

BRIDGE RECORD WAS UPDATED ON _____

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(App C) SUFFICIENCY RATING - _____
STATUS _____

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NOTE: ITEM NUMBERS CORRESPOND WITH THOSE USED IN THE FHWA NATIONAL BRIDGE INVENTORY EXCEPT FOR THOSE GREATER THAN 199, WHICH ARE UNIQUE TO THE USACE. ITEMS 211 THROUGH 215 ARE ONLY FOR ARMY INSTALLATIONS.

***********************NAVIGATION DATA***********************

(38) NAVIGATION CONTROL - _____ CODE _____
(111) PIER PROTECTION - _____ CODE _____
(39) NAVIGATION VERTICAL CLEARANCE _____ FT
(116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR _____ FT
(40) NAVIGATION HORIZONTAL CLEARANCE _____ FT

***********************CLASSIFICATION***********************

(112) NBIS BRIDGE LENGTH - _____ CODE _____
(104) HIGHWAY SYSTEM - _____CODE _____
(26) FUNCTIONAL CLASS - _____ CODE _____
(100) DEFENSE HIGHWAY - _____ CODE _____
(101) PARALLEL STRUCTURE - _____ CODE _____
(102) DIRECTION OF TRAFFIC - _____ CODE _____
(103) TEMPORARY STRUCTURE - _____ CODE _____
(110) DESIGNATED NATIONAL NETWORK - _____
(20) TOLL - _____CODE _____
(21) MAINTENANCE RESPONSIBILITY - _____ CODE _____
(22) OWNER - _____
(37) HISTORICAL SIGNIFICANCE _____CODE _____

***********************CONDITIONS*********************CODE**

(58) DECK _____
(59) SUPERSTRUCTURE _____
(60) SUBSTRUCTURE _____
(61) CHANNEL & CHANNEL PROTECTION _____
(62) CULVERTS _____

***************LOAD RATING & POSTING**************CODE**

(31) DESIGN LOAD - _____ _____
(64) OPERATING RATING - _____ _____
(66) INVENTORY RATING - _____ _____
(70) BRIDGE POSTING - _____ _____
(41) STRUCTURE OPEN, POSTED OR CLOSED - _____
DESCRIPTION - _____

************************APPRAISAL********************CODE**

(67) STRUCTURAL EVALUATION _____
(68) DECK GEOMETRY _____
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL _____
(71) WATERWAY ADEQUACY _____
(72) APPROACH ROADWAY ALIGNMENT _____
(36) TRAFFIC SAFETY FEATURES _____
(113) SCOUR CRITICAL BRIDGES _____

*******************PROPOSED IMPROVEMENTS*******************

(75) TYPE OF WORK - _____ CODE _____
(76) LENGTH OF STRUCTURE IMPROVEMENT _____ FT
(94) BRIDGE IMPROVEMENT COST $____ , ____ , 000
(95) ROADWAY IMPROVEMENT COST $____ , ____ , 000
(96) TOTAL PROJECT COST $____ , ____ , 000
(97) YEAR OF IMPROVEMENT COST ESTIMATE _____
(114) FUTURE ADT _____
(115) YEAR OF FUTURE ADT _____

************************INSPECTION************************

(90) INSPECTION DATE ___/___ (91) FREQUENCY _____ MO
(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
A) FRACTURE CRIT DETAIL -____-____MO A) _____
B) UNDERWATER INSP -____-____MO B) _____
C) OTHER SPECIAL INSP -____-____MO C) _____
(203) INSP OFF _____
(204) INSPECTOR _____
(205) INSPECTION COST _____
(211) MACON _____
(212) INSTALLATION NAME _____
(213) MILITARY LOAD CLASS WHEELED _____
(214) MILITARY LOAD CLASS TRACKED _____
(215) INSTALLATION NUMBER (IFS) _____
(216) SEISMIC CATEGORY _____
(217) ACCELERATION COEFFICIENT _____
(218) SOIL SITE CONDITION _____